



CLAIM AMENDMENTS

Claims 1-13 (canceled).

Claim 14 (withdrawn). The leak-stopper system for water plumbing of claim 1 and further comprising:

5 a network connection for remote control of the leak-stopper system that includes a plurality thereof.

Claims 15-22 (canceled).

1 Claim 23 (new): A leak-stopper system for water plumbing comprising:

2 a leak-probe circuit (1) positioned in water-detection proximity to water
3 plumbing (2) for a building;

4 an electrical circuit having electrical communication from a predetermined
5 plurality of predeterminedly spaced-apart leak sensors (3) on the leak-probe circuit
6 (1) to a control board (4);

7 the leak sensors (3) include three-probe sensors (14) having an output probe
8 (15) intermediate a first input probe (16) and a second input probe (17);

9 the leak-probe circuit (1) is in electrical communication with the first input
10 probe (16) and the second input probe (17) through input connectors (18);

11 the leak-probe circuit (1) is in return electrical communication with the output
12 probe (15) through an output connector (19);

13 the first input probe (16) and a second input probe (17) are articulated to
14 convey current through leakage water (7) to the output probe (15) and the output
15 probe (15) is articulated to receive the current through the leakage water (7) for
16 conveying the current from the leakage water (7) through the output connector (19)
17 and into the leak-probe circuit (1) for communication to designated visual leak
18 signalers (5) on the control board (4);

19 visual leak signalers (5) on the control board (4) being in electrical
20 communication with the leak sensors (3) for electrically detecting and signaling
21 location of any water leakage of the water plumbing (2) proximate one or more of the
22 leak sensors (3) to at least one of the visual leak signalers (5) on the control board (4);
23 the water plumbing (2) including a plumbing valve (6) with predetermined
24 features for shutting off water to the water plumbing predeterminedly in response to
25 detection of leakage of the water plumbing (2) in order to allow the water leakage to
26 be fixed before water damage occurs to the building or to contents of the building;
27 the leak sensors (3) being articulated for detecting water leakage (7) by closing
28 of circuitry of the leak sensors (3) predeterminedly with leakage water (7) for
29 communicating position of the leakage water (7) by communicating position of at least
30 one of the leak sensors (3) with circuitry closed by the leakage water (7) to at least
31 one of predetermined visual leak signalers (5) on the control board (4);
32 the control board (4) being articulated in coordination with the water plumbing
33 (2) and the leak-probe circuit (1) for indicating location of the leakage water (7) by
34 indicating location of at least one of the leak sensors (3) with circuitry closed by the
35 leakage water (7); and
36 an electrical source (8) for supplying user-safe electrical current to components
37 of the leak-stopper system for detecting leaks, for communicating their location, for
38 operating the plumbing valve (6) and for other related functions.

1 Claim 24 (new). The leak-stopper system for water plumbing of claim 23,
2 wherein:

3 the electrical source (8) includes an isolated power source for supplying a user-
4 safe level of current for a predetermined period of leak-detection time in case of
5 power outage to the building.

1 Claim 25 (new). The leak-stopper system for water plumbing of claim 24
2 wherein:

3 the isolated power source includes a chargeable battery (9) that is chargeable
4 by a charger (10) in communication with an AC power source (11) to the building.

1 Claim 26 (new). The leak-stopper system for water plumbing of claim 24
2 wherein:

3 the isolated power source includes a predetermined DC power supplier (12)
4 with DC current from a transformer (13) in communication with the AC power source
5 (11) to the building.

1 Claim 27 (new). The leak-stopper system for water plumbing of claim 23
2 wherein:

3 the leak-probe circuit (1) includes a valve-control line (20) in communication
4 with the plumbing valve (6) from the control board (4) for closing the plumbing valve
5 (6) automatically in response to communication of detection of a leak in the water
6 plumbing (2) by at least one of the leak sensors (3); and

7 the plumbing valve (6) is articulated to be closed for preventing water from
8 entering the water plumbing (2) by the communication from the control board (4).

1 Claim 28 (new). The leak-stopper system for water plumbing of claim 27 and
2 further comprising:

3 an override switch for manually overriding automatic closing of the plumbing
4 valve (6).

1 Claim 29 (new). The leak-stopper system for water plumbing of claim 28,
2 wherein:
3 the override switch includes a pushbutton toggle switch (21).

1 Claim 30 (new). The leak-stopper system for water plumbing of claim 28 and
2 further comprising:
3 an override-time regulator for regulating time of override of automatic closing
4 of the plumbing valve (6).

1 Claim 31 (new). The leak-stopper system for water plumbing of claim 30,
2 wherein:
3 the override-time regulator includes a rotational knob (22) for being rotated in
4 a rotational direction predeterminedly for increase of time of override of the automatic
5 closing of the plumbing valve (6).

1 Claim 32 (new). The leak-stopper system for water plumbing of claim 23,
2 wherein:
3 the visual leak signalers (5) include LED's.

1 Claim 33 (new). The leak-stopper system for water plumbing of claim 23 and
2 further comprising:
3 an audio signaler (23) on the control board (4) for signaling leakage.

1 Claim 34 (new). The leak-stopper system for water plumbing of claim 23 and
2 further comprising:
3 a remote-control connection (24) for optionally hard-wire or wireless remote

4 control of the control board (4), the plumbing valve (6) and other features of the leak-
5 stopper system.

1 Claim 35 (new). The leak-stopper system for water plumbing of claim 23 and
2 further comprising:

3 a network connection (25) for remote control of the leak-stopper system that
4 includes a plurality thereof.

1 Claim 36 (new). The leak-stopper system for water plumbing of claim 23,
2 wherein:

3 the leak-probe circuit (1) includes a plurality of signal lines (23) with each of
4 the signal lines (23) having electrical communication from a predetermined leak
5 sensor (3) to a predetermined visual leak signaler (5).

1 Claim 37 (new). The leak-stopper system for water plumbing of claim 23 and
2 further comprising:

3 a circuit attachment (27) for attaching the leak-probe circuit (3) to the water
4 plumbing (2).

1 Claim 38 (new). The leak-stopper system for water plumbing of claim 37,
2 wherein:

3 the circuit attachment (27) includes a pipe clasp (28).

1 Claim 39 (new). The leak-stopper system for water plumbing of claim 37,
2 wherein:

3 the circuit attachment (27) includes a clasp tray (29) for clasping onto the water

4 plumbing (2) for collecting the leakage water (7) and for conveying the leakage water
5 (7) to the leak sensors (3).

1 Claim 40 (new). The leak-stopper system for water plumbing of claim 39,
2 wherein:

3 the circuit attachment (27) includes the pipe clasp (28).

1 Claim 41 (new). The leak-stopper system for water plumbing of claim 37,
2 wherein:

3 the circuit attachment (27) includes an adhesive (30) for adhering the leak-
4 probe circuit (1) to the water plumbing (2).

1 Claim 42 (new). The leak-stopper system for water plumbing of claim 23 and
2 further comprising:

3 an electronic circuit (31) for communicating leak detection by the leak sensors
4 (3) to the visual leak signalers (5) and for conveying shutoff communication to the
5 plumbing valve (6).